

Dr. Duke's Phytochemical and Ethnobotanical Database

Chemicals Found in *Cinchona pubescens*

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
38	(-)-EPICATECHIN	Bark	--	--		
1	1-HYDROXY-2-HYDROXYMETHYLANTHRAQUINONE	Tissue Culture	--	--		
2	10-METHOXYCINCHONAMINE	Tissue Culture	--	--		
2	10-METHOXYCINCHONAMINE	Leaf	--	--		
3	3-ALPHA,17-ALPHA-CINCHOPHYLLINE	Stem	--	--		
3	3-ALPHA,17-BETA-CINCHOPHYLLINE	Leaf	--	--		
3	3-ALPHA,17-BETA-CINCHOPHYLLINE	Stem	--	--		
3	3-BETA,17-BETA-CINCHOPHYLLINE	Leaf	--	--		
11	ALIZARIN	Tissue Culture	--	--		
2	ALIZARIN-1-METHYL-ETHER	Tissue Culture	--	--		
3	ALIZARIN-2-METHYL-ETHER	Tissue Culture	--	--		
102	CAFFEIC-ACID	Leaf	--	--		
102	CAFFEIC-ACID	Bark	--	--		
77	CHLOROGENIC-ACID	Leaf	--	--		
5	CHRYSAZIN	Tissue Culture	--	--		
3	CINCHONAIN-IIB	Bark	--	291		
3	CINCHONAIN-III-B	Bark	--	--		Takechi, M., Tanaka, Y., Takehara, M., Nonaka, G. I., Nishioka, I. 1985. Structure and Antiherpetic Activity Among the Tannins. <i>Phytochemistry</i> 24 10: 2245-2250.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	CINCHONAMINE	Stem	--	--		
1	CINCHONAMINE	Tissue Culture	--	--		
6	CINCHONIDINE	Leaf	--	2200		
6	CINCHONIDINE	Bark	--	25600	-1	
6	CINCHONIDINE	Root	--	1000		
6	CINCHONIDINE	Stem	--	--		
6	CINCHONIDINE	Shoot	--	600		
2	DIHYDROQUINIDINE	Leaf	--	--		
2	DIHYDROQUINIDINE	Stem	--	52		
1	HYDROQUININE	Tissue Culture	--	--		
30	HYPEROSIDE	Leaf	--	--		
43	PROTOCATECHUIC-ACID	Leaf	--	--		
2	PURPURIN	Tissue Culture	--	--		
2	PURPURIN-1-METHYL-ETHER	Tissue Culture	--	--		
23	QUINIDINE	Stem	--	48		
23	QUINIDINE	Root	--	500		
23	QUINIDINE	Leaf	--	400		
23	QUINIDINE	Shoot	--	100		
23	QUINIDINE	Bark	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	QUINIDINONE	Stem	--	--		
32	QUININE	Bark	21800	65753	1	
32	QUININE	Leaf	400	9200		
32	QUININE	Shoot	--	700		
32	QUININE	Stem	--	112		
32	QUININE	Root	--	1300		
3	QUINOVIC-ACID	Bark	--	--		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
3	QUINOVIC-ACID	Stem	--	--		
1	RUBIADIN	Tissue Culture	--	--		